

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

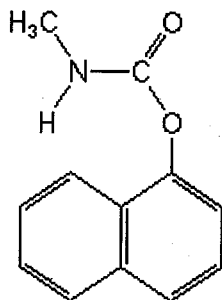
Analyte: Carbaryl

CAS No.: 63-25-2

Formula: C₁₂H₁₁NO₂

Molecular mass (lowest isotopes): 201,10 amu

Structure:



Ionisation: ESI +

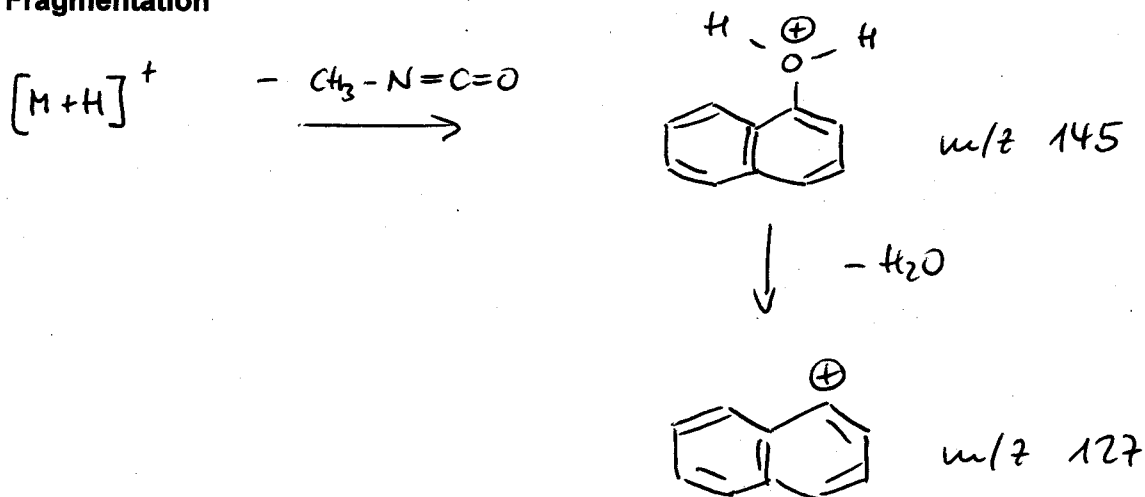
Quasimolecular ion: 202,1 amu = [M+H]⁺

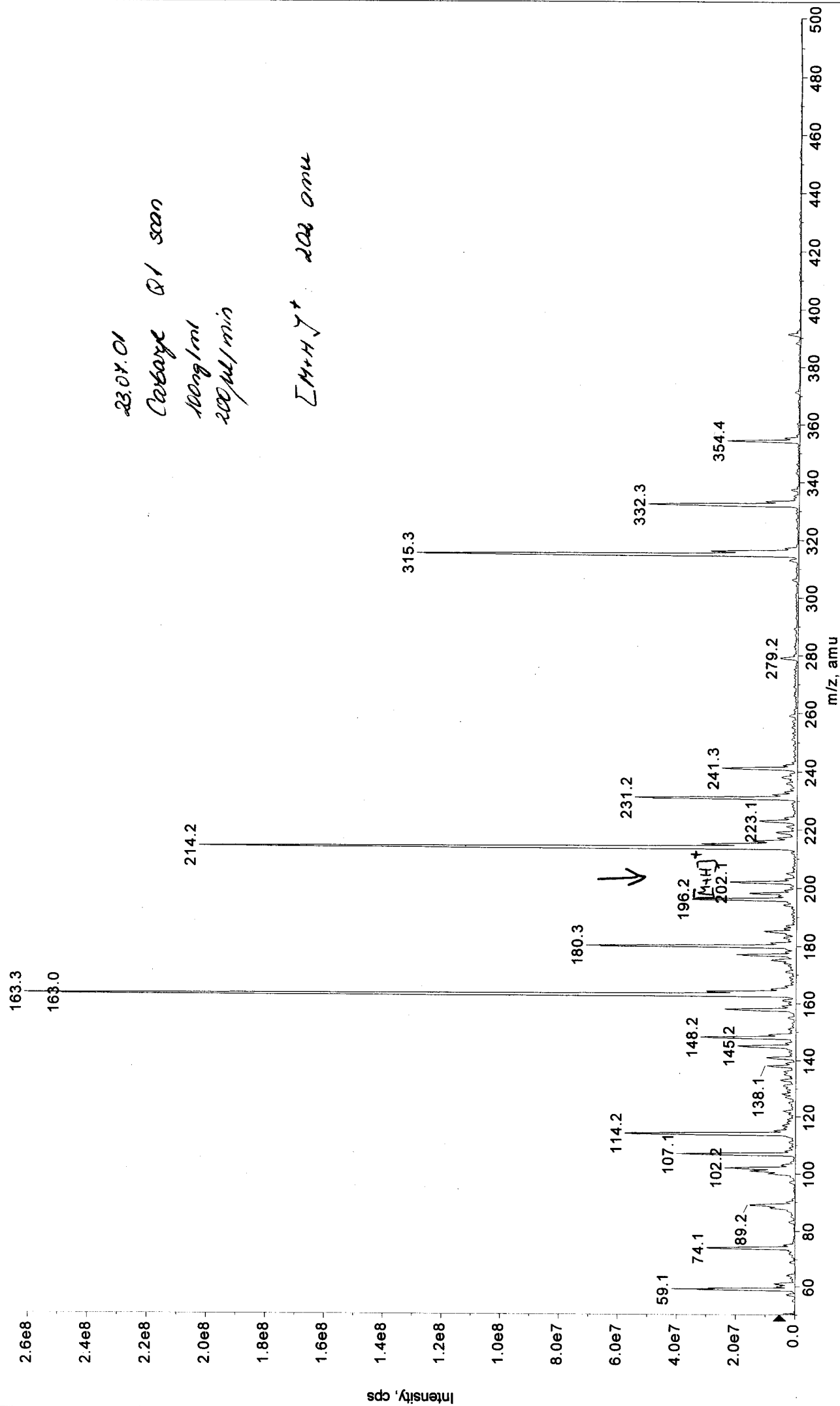
Analyte sensitive parameter set (API 2000)

Transition	202,1 → 144,9	202,1 → 127,0
Declustering potential (DP) ^{*)}	11 V	11 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	10,0 V	10,0 V
Collision cell entrance potential (CEP)	10 V	10 V
Collision energy (CE)	15 V	35 V
Collision cell exit potential (CXP)	8 V	6 V

^{*)} For API 3000 and 4000 enhance DP by 20V

Fragmentation





144.9

Intensity, cps

3.3e6
3.2e6
3.0e6
2.8e6
2.6e6
2.4e6
2.2e6
2.0e6
1.8e6
1.6e6
1.4e6
1.2e6
1.0e6
8.0e5
6.0e5
4.0e5
2.0e5
0.0

202.0

m/z, amu

23.07.01
Cabaryl Q3 von 202 → 145
100 ng/ml
200 µl/min

23.04.01
Catabase 127 Q3
202 → 127
100 ng/ml
200 μ l / min

